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independently present in the aspartic acid rich domain, and wherein

said mutant prenyl diphosphate synthase comprises (1) at least one amino acid substitution, said at least one amino acid substitution located at at least one amino acid position selected from (a) an amino acid between D_1 and the amino acid residue at the fifth position upstream of D_1 and (b) the amino acid residue located one amino acid position upstream of D_3 ; (2) at least one additional amino acid inserted between D_3 and the first amino acid upstream of D_3 ; or a combination of (2) and (3);

wherein said mutant prenyl diphosphate synthase synthesizes prenyl diphosphate which is shorter than prenyl diphosphate synthesized by a corresponding wild-type enzyme.

Claim 18. A mutant prenyl diphosphate synthase according to claim 19 wherein said mutant has the enzymatic activities and thermo stability of wild type prenyl diphosphate synthase.

Please amend the claims as follows.

In line 1 of each of claims 2-5, 7 and 11, change "1" to --17--.

In line 2 of each of claims 8-10 and 15, change "1" to -- 17 --.

In line 2 of each of claims 10 and 15, change "1" to --17--.

Claim 16, line 3, after "to" insert -- claim 17 or --, and after "claims" delete "1" and insert -- 2 -- .

